CORRES. CONTROL **OUTGOING LTR. NO**

DOE ORDER # 4700.1		
03-RF-013	44	
DIST.	LTR	EN
HETER, T.		
ERRERA, D.W.		
ERRI, M.S.		
.INDSAY, D.		
YLE, J.		
MARTINEZ, L. A.		
ARKER, A.		
OWERS, K.		
SHELTON, D.C.		
3PEARS, M.S.		
RICE, K.D.		
TUOR, N. R.		
AGUILAR, P.		



September 5, 2003

Assistant Manager for

Environment and Stewardship

Joe Legare

DOE, RFFO

03-RF-01344

		<u> </u>
GUILAR, P.		Г
ALBIN, C.		Г
UBLE, M.		
BEAN, C.		
BUTLER, J. L.		
DECK, C.		
RANCIS, M.	X	X
REIBOTH, C.		
SEIS, A.		
SIBBS, F.	X	
IUMISTON, T.		
(NAPP, S.		
INSINBIGLER, H.		
YERS, K.		
IESTA, S.	Χ	X
LIVER, R.		
DMAN, K.		
LAPPERT, R.		
0440005		_

RICHARDELLA, R.

CORRES.CONTROL

RAFFIC 2ATS/130

JCNI INCLASSIFIED CONFIDENTIAL

ADMIN RECRD/T130G

CLASSIFICATION

AUTHORIZED CLASSIFIER

N REPLY TO REP CC NO.

ROSENMAN, A. SNYDER, D.P HOMPSON, J

VIEMELT, K.

RSOP FOR COMPONENT REMOVAL, SIZE REDUCTION, AND DECONTAMINATION ACTIVITIES NOTIFICATION LETTER FOR BUILDINGS 991 AND 998, AND RCRA CLOSURE FOR UNITS 991.1 (B991) AND 984.1 (B984) -- FEG-026-03

Attached is a draft transmittal letter to the Colorado Department of Public Health and Environment for the RSOP notification for Buildings 991 and 998 component removal, size reduction, and decontamination, and the Closure Description Document (CDD) for RCRA units 991.1 and 984.1. The draft transmittal letter has been prepared from DOE building point of contact to CDPHE building point of contact; however, it could also be addressed from DOE RFCA coordinator to CDPHE RFCA coordinator.

Please contact Steve Nesta x6386 with questions or concerns.

Frank E. Hill Frank E. Gibbs

Deputy Project Manager

Remediation, Industrial D&D, and Site Services

Attachment: As Stated

MF:pvt

cc: Steve Tower

DOCUMENT LIASSIFICATION Orig. and 1 cc - Joe Legare

ACTION ITEM STATUS: **PARTIAL/OPEN** CLOSED LTR APPROVALS:

DateCLASSIF'C, T'ON OFFICE

ORIG. & TYPIST INITIALS: MF:pvt

Sessimmer.

(F-46469(Rev.9/94)

IA-A-001617

David Kruchek Colorado Department of Health and Environment 4300 Cherry Creek Drive South Denver, CO 80222-1530

RSOP FOR COMPONENT REMOVAL, SIZE REDUCTION, AND DECONTAMINATION ACTIVITIES NOTIFICATION LETTER FOR BUILDINGS 991 AND 998, AND RCRA CLOSURE FOR UNITS 991.1 (B991) AND 984.1 (B984).

Mr. Kruchek:

In accordance with the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Component Removal, Size Reduction and Decontamination Activities, this letter and its attachments is notification for RSOP implementation. This notification is for all activities required to bring Buildings 991 and 998 to the unrestricted release criteria. This will involve component removal, size reduction, decontamination, and RCRA unit closure activities utilizing the methods specified in the RSOP. Included, as an attachment, is the Closure Description Document (CDD) for the RCRA units in Buildings 991 and 984. These are Units 991.1 and 984.1, respectively.

Once the pre-demolition survey is complete, and the facilities meet the unrestricted release criteria, an additional notification letter will be prepared to implement the RSOP for Facility Disposition.

This work will be conducted by Kaiser-Hill or a decommissioning subcontractor. If Kaiser-Hill or the subcontractor proposes to use alternate methods, an additional notification will be made and, in consultation with DOE/LRA, the RFCA process for decision document modification will be used.

The appropriate checklists and information required by the RSOP are attached to this letter and should provide the necessary information. This work will be conducted in accordance with the work control documentation prepared by Kaiser-Hill or the subcontractor. The exact methods and process selected by Kaiser-Hill or the subcontractor and progress of the activities will be communicated to DOE/LRA through the consultative process, particularly the monthly RISS production meetings.

Because RCRA closure in being conducted, the LRA has 30 days to review the RSOP notification letter and provide feedback, including a definitive reason for not proceeding with the project. If no feedback is received within 30 days, the project will proceed as planned.

If you have any questions regarding this, please contact me at (303) 966-2133.

Steve Tower U.S. Department of Energy

RSOP for Component Removal, Size Reduction, and Decontamination Activities Checklist Page 1 of 5

		gs 991and 998 91.1 and 984.1	component removal,	deconta	mina	ion, siz	e redu	ction,	and R	CRA	closure of
Facility description: Buildings 991(Site Material Receiving and Shipping), 998 (Storage vault) and 984 (TRU Waste Storage)											
Description of pl	anned a	activity(ies):	Remove component Corridor B of B991 984.1								
Facility/rooms/se	ts/area	s involved:	All areas of Building	s 991, 9	98 an	d 984				<u>.</u>	
	• • •	-	lanned activity? Unit nit specific informati	,				(B98	84)	~	Yes No
Attach checklists	from A	Appendix A of	f the RSOP.		~	Comp	ponent	Rem	oval/S	Size R	eduction
					~	Deco	ntamiı	ation	1		
RLCR Status	~	RLCR com	plete and concurrenc	e receiv	ed: 0	3/21/03	3				
	RLCR initiated but incomplete; concurrence anticipated:										
	RLC has not been initiated ¹ and is scheduled for initiation on:										
If RLCR is not c data will be used											
Activity requires modification to the ARARs listed in the RSOP. Yes, attach to letter					to letter						
✓ N				No							
			quirements for the ac	tivity.							
Point of contact	for eacl	ı facility/activ	rity: Karen Wieme	lt – (303	966	-9883					
Duration of worl	k activi	ties: 2 mont	ths	Anti	cipa	ted wor	k star	t: 1	0/01/0)3	
Attach schedule	for eacl	h facility or ac	ctivity for informatio	n purpo	ses.						
Does the activity shell.	Does the activity involve removing contaminated portions of the building shell. Yes, LRA consultation and concurrence require										
							~	No			

¹ Evaluate using DPP, Sections 1.1.4 and 1.1.5 and the consultative process to implement activities

RSOP for Component Removal, Size Reduction, and Decontamination Activities Checklist

Are there deviations/exceptions to the R	RSOP fo	or the pro	posed	activity(ies)	?		Yes
							✓ No
Provide an explanation of deviation/exc C. Check the appropriate resulting act	•		OP:	Not applical	ble		
Additional RFCA decision docum	nent red	quired (P	AM –	IM/IRA)		<u>.</u>	
Major modification to RSOP				Field cha	nge to	RSOP	
Minor modification to RSOP				LRA con	sultat	ion	
Activity(ies) will result in the following	waste t	ypes		,			Process waste
						~	Remediation waste
TRU 🗸 LLW LLMV	V	Haz.	•	Sanitary	<u> </u>	Other	r: recyclable/re-use
LRA Notification Review Time		14 days,	no Re	CRA unit clo	sure	involve	d
	~	30 days,	RCR	A unit closu	re inv	olved	

FACILITY COMPONENT REMOVAL, SIZE REDUCTION, AND DECONTAMINATION ACTIVITY CHECKLIST

Building: Buildings 991 a	nd 998	
Closure Project Manager:	Karen Wiemelt	

COMPONENT REMOVAL/SIZE REDUCTION

Component Type	V
Gloveboxes	
Tanks and ancillary equipment (located both inside and outside the facility)	~
Fume hoods	~
Ventilation/filtration systems (both inside and outside the facility)	~
Utilities and other equipment (both inside and outside the facility; including electrical, steam, and fire suppression systems)	•
Walls	•
Floors	~
Ceilings	~
Roofs	
Other structural members	
Other*	

Removal/Size Reduction Techniques	(V)
Small tools	>
Paving breaker, jackhammer and/or similar tools used to break up concrete	
Excavators, such as backhoes, to excavate underground components, such as tanks and ancillary equipment	
Hoists and cranes	
Plasma arc cutter	
Diamond wire saw	
Wachs cutter	
Laser cutter	
Oxy-torch cutter	
Hydraulic shears	
Shear baler	
Water cutter using abrasives	
Arc air slice	
Arbor press	
Non-explosive cracking agent	
Other *	

^{*} Describe "Other" Component Type(s) and/or Removal/Size Reduction Technique(s):

DECONTAMINATION

Component Type	
Gloveboxes	
Tanks and ancillary equipment (located both inside and outside the facility)	~
Fume hoods	~
Ventilation/filtration systems (both inside and outside the facility)	~
Utilities and other equipment (both inside and outside the facility; including electrical, steam, and fire suppression systems)	•
Walls	
Floors	~
Ceilings	~
Roofs	
Other structural members	
Other*	

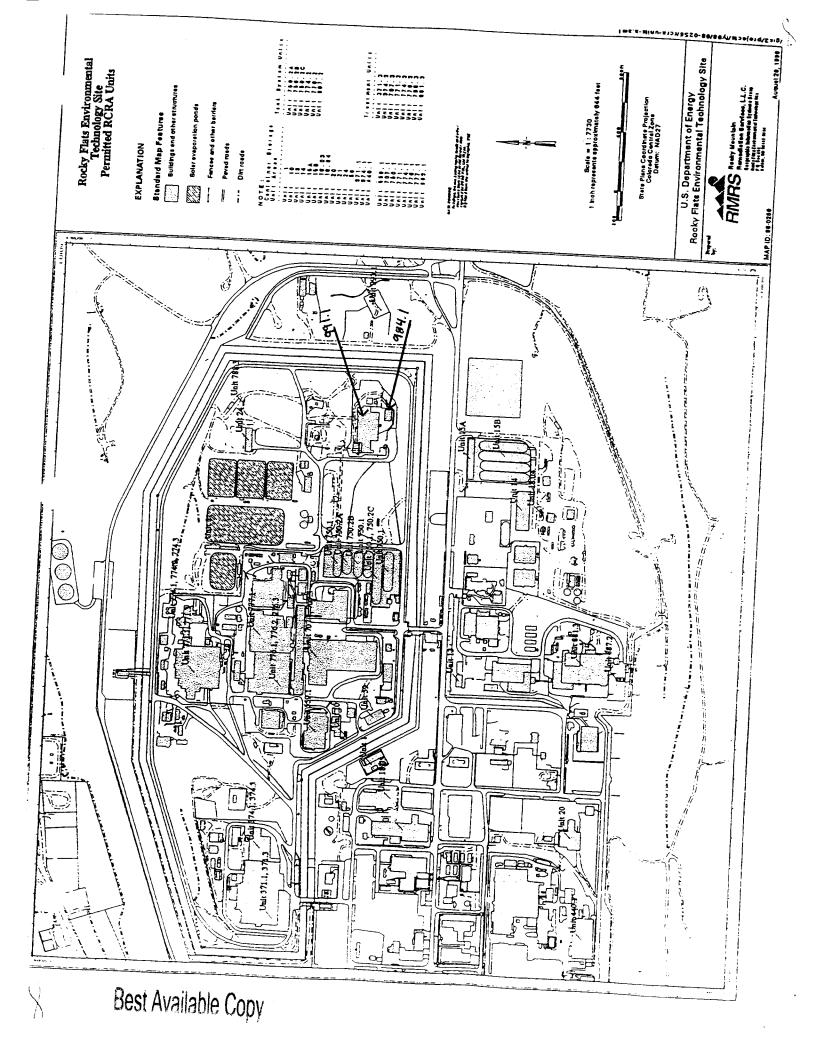
Decontamination Technique	i - V -
Wiping/scrubbing/washing with water or detergents	¥
Vacuuming	V
Strippable Coating	~
Grinding	
Scarifying	
Scabbling	
Paving breaker/chipping hammer	
Spalling	
Abrasive/grit blasting	
CO ₂ blasting	
Hydrolasing	
Strong mineral acids	
Organic or weak acids	
Additional oxidants, such as cerium and other similar metals	
Other *	~

^{*} Describe "Other" Component(s) and/or Decontamination Technique(s):
The rad contamination in Corridor B is in the paint. This paint may be removed by chipping with small tools

Note: In the event a planned activity falls outside the scope of this RSOP, the closure project manager will consult with DOE and the LRA to determine whether this RSOP should be modified to include the activity, or whether a separate decision document should be written.

Administrative Record Requirements for this Activity

- Final Rocky Flats Cleanup Agreement (RFCA)
- RFETS Decommissioning Program Plan (DPP)
- RFCA Standard Operating Protocol for Component Removal, Size Reduction, and Decontamination Activities
- Reconnaissance Level Characterization Report for Group Area 2 Group 2 Facilities
- Notification Letter and subsequent CDPHE correspondence, if appropriate



Closure Description Document for RCRA Units 991.1 and 984.1 Revision 0, 09/04/03

Closure Description Document for the Closure of RCRA Units 991.1 The Mixed Waste Storage Unit at Building 991, and 984.1 The TRU Waste Storage Facility at Building 984

INTRODUCTION

The Rocky Flats Environmental Technology Site's (RFETS) "RFCA Standard Operating Protocol (RSOP) for Facility Component Removal, Size Reduction, and Decontamination Activities, Section 5.0, Revision 0, February 4, 2001" addresses closure of RCRA regulated units.

This document applies to RCRA Units 991.1 and 984.1. Unit 991.1 includes numerous hazardous and mixed waste storage rooms located in Buildings 991 and 998. Unit 984.1 refers to the Transuranic (TRU) Waste Storage Facility at Building 984. Complete closure will be accomplished in accordance with Option 1 of the closure options outlined in the RSOP (Sections 5.1.1 - 5.1.3).

Activities will be designed to achieve the closure performance standard, protect human health and the environment, and minimize waste. Specific work instructions, with engineering, health and safety, and waste management information, will be developed prior to the start of closure activities. These instructions will be developed in accordance with applicable RFETS policies and procedures.

SYSTEM HISTORY AND WASTE CHARACTERIZATION

RCRA Unit 991.1 within the 991 and 998 facilities is located near the eastern edge of the RFETS industrial area. The past history within these facilities included final assembly areas for plutonium, enriched uranium, depleted uranium and beryllium weapons components. These components were stored within the 991 facility cluster prior to offsite shipment. Unit 991.1 is a relatively new permitted waste storage unit. The first drum of waste to be stored in the unit was placed there on September 6, 2000. Since then, the facility has served as a TRU waste storage facility. The EPA hazardous waste codes that apply to Unit 991.1 include D001 - D011, D018 - D019, D022, D028 - D029, D034 - D035, D038 - D040, D043, F001-F003, F005 - F009. See Attachment 1, Unit Specific Information - Unit 991.1, from the RFETS RCRA permit.

The permitted storage capacity (maximum) of Unit 991.1 is 50,655 gallons. Liquids are permitted to a 973 gallon maximum.

RCRA Unit 984.1 within Building 984 is also located near the eastern edge of the RFETS industrial area, adjacent to B991. This unit was put into service in September 2000, and inactivated in May 2003. The EPA hazardous waste codes that apply to Unit 984.1 include D001 - D011, D018 - D019, D022, D028 - D029, D034 - D035, D038 - D040, D043, F001-F003, F005 - F009. See Attachment 2, Unit Specific Information—Unit 984.1, from the RFETS RCRA permit.

The permitted storage capacity (maximum) of Unit 984.1 is 217,604 gallons. Liquids are permitted to a 330 gallon maximum.

System Boundaries

Unit 991.1 is specific to the following Rooms within Building 991: 101, 105, 106, 107, 108, 110, 110A, 110B, 111, 111A, 112, 113, 114, 115, 116, 118, 119, 120, 122, 122A,

122B, 123, 124, 127, 128, 129, 132, 134, 135, 136, 137, 138, 140, 140A, 141, 142, 142A, 142B, 143, 147, 147A, 148, 149, 150, 151, 153, 155, 156, 157, 158, 166, 167 and 170; and within Building 998: Room 300 and Corridor A. See Attachment 1, Unit Specific Information – Unit 991.1, from the RFETS RCRA permit.

Unit 984.1 is specific to the interior of B984. See Attachment 2, Unit Specific Information – Unit 984.1, from the RFETS RCRA permit.

CLOSURE OPTIONS

Units 991.1 and 984.1 – All Permitted Waste Storage Rooms in Buildings 991, 998, and 984

A review of the RCRA Operating Record including weekly inspection logs, ECATS, PATS, and the Spill Occurrence Report, indicates that no hazardous, TRU or TRU-mixed waste has spilled, leaked or otherwise been released from Units 991.1 or 984.1. A visual inspection of the permitted storage rooms by RISS Environmental compliance personnel verified the absence of hazardous or mixed waste stains and/or residuals. The observed stains in 991.1 can be attributed to rain/snow melt. Additionally, there is no record of liquid wastes being stored in Unit 984.1. Therefore, Units 991.1 and 984.1 will be closed in accordance with Section 5.1.1 of the "RSOP for Facility Component Removal, Size Reduction, & Decontamination Activities", Option 1. Option 1 requires that two criteria be met, a review of the Operating record to document spills or releases were adequately cleaned up, and a visual inspection to verify the absence of stains and/or residuals.

SOIL CONTAMINATION EVALUATION AND POST CLOSURE CARE

The Historical Release Report indicates that soil contamination may exist underneath B991 as detailed in the Under Building Contamination (UBC) 991 description. Soil sampling is not planned for activities conducted under this RSOP notification. ER will perform any necessary soil sampling and associated soil remediation upon invoking the ER RSOP for Routine Soil Remediation.

RECORDKEEPING

RCRA unit closure activities will be documented in the Decommissioning Final Closeout Report as opposed to the Pre-Demolition Survey Report (PDSR) which will be completed after demolition of the units. When final closure of units 991.1 and 984.1 are completed, the Site's Master List of RCRA units will be updated with the closure status and a permit modification will be submitted to remove the units from the RCRA Part A and Part B Permit. All inspection records will be sent to permanent storage.

ATTACHMENT 1 Unit Specific Information Unit 991.1



Unit Number:

Unit Name:

Process Code:

Design Capacity:

Waste Type(s):

Process Total Number of Units:

EPA Hazardous Waste Codes:

Estimated Annual Quantity of Waste:

Unit Permitting

Container Staging and Storage Area (Building 991)

Maximum Capacity: 50,655 gallons Liquid Capacity Limit: 973 gallons

TRU Mixed

D001-D011, D018-D019, D022, D028-D029, D034-035, D038-D040,

D043, F001-F003, F005-F009

500 Tons

Permitted Hazardous Waste Storage Areas

Unit 991.1 Buildings 991/998

III-30

Closure Description Document for RCRA Units 991.1 and 984.1 Revision 0, 09/04/03

ATTACHMENT 2 Unit Specific Information Unit 984.1

1

Unit Number:

Unit Name:

984.1

Process Code:

Container Staging and Storage Area (Building 984)

Design Capacity:

Maximum Capacity: 217,604 gallons (1,077 cubic yards)

Liquid Capacity Limit: 330 gallons Low-Level Mixed, TRU Mixed

Waste Type(s): Process Total Number of Units:

EPA Hazardous Waste Codes:

D001-D011, D018-D019, D022, D028-D029, D034-D035, D038-

D040, D043, F001-F003, F005-F009

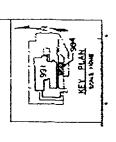
Estimated Annual Quantity of Waste:

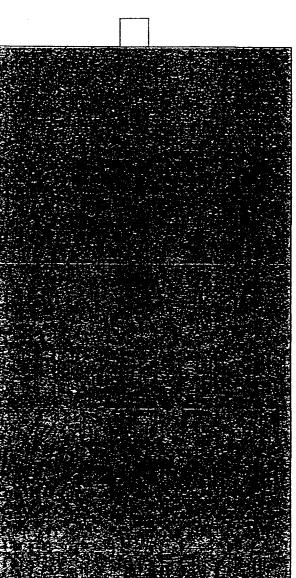
3,800 Tons

Unit Permitting Status:

Permitted









Permitted Hazardous/Mixed Waste Storage Areas

Unit MS 001, Sub-Unit 984.1 Building 984

111-29